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PERMANENT IMPROVEMENTS AT MOUNT HAMILTON.

The Regents of the University have set apart the sum of $1000 from the capital of the Lick Fund, to be expended in providing new reservoirs, etc., and in general improvements to the water supply. This sum is sufficient to secure an adequate provision of water for all domestic uses.

The sum of $700 has been expended during the winter on repairs to our telegraph and telephone line. The line is now in first-class condition for some seven miles from San Jose, and in good condition the rest of the way. E. S. H.

APPOINTMENT OF MR. KEELER TO THE ALLEGHENY OBSERVATORY, AND OF MR. W. W. CAMPBELL TO THE LICK OBSERVATORY.

Mr. KEELER has accepted the position of Professor of Astronomy in the Northwestern University of Pennsylvania and Director of the Allegheny Observatory, and has tendered his resignation as Astronomer in the Lick Observatory, to take effect June 1, 1891. He leaves behind him at the Lick Observatory a record of admirable work admirably done, and he takes with him our best wishes for his future success in his new field.

Mr. KEELER'S resignation was presented to the Regents of the University at their May meeting and the following resolution was adopted by them:

Resolved, that in accepting the resignation of Mr. KEELER, the Regents desire to express their high appreciation of his astronomical work at the Lick Observatory and that they wish him every success in his new position.

Mr. W. W. CAMPBELL, lately Instructor of Astronomy at the University of Michigan, was appointed Astronomer in the Lick Observatory, to date from June 1, 1891.

At the June meeting of the Regents an additional Astronomer was authorized, whose chief work is to be in Spectroscopy. No appointment has yet been made. E. S. H.

ELEMENTS AND EPHEMERIS OF BARNARD'S COMET (MARCH 29, 1891).

From Mr. BARNARD'S observations of March 29, 30 and 31, I have computed the following elements of the orbit of this comet.

$$T = \text{April } 27.668 \text{ Gr. M. T.}$$

$$\left.\begin{array}{l}\omega = 184 \quad 30'.7\\ \Omega = 194 \quad 24'.5\\ i = 120 \quad 30'.3\end{array}\right\}\text{Apparent Equinox.}$$

$$\log q = 9.56164.$$

The Middle place is represented as follows:

$$\begin{array}{l}\underline{\qquad C - O \qquad}\\ \Delta\alpha \cos\delta = -0'.14\\ \Delta\delta \qquad = +0'.26\end{array}$$

This orbit (together with an ephemeris extending to April 14) was communicated to other observatories by telegraph.

J. M. SCHAEBERLE.

MOUNT HAMILTON, April 3, 1891.

NEW RILL ON THE FLOOR OF THE LUNAR CRATER *THEBIT*, RECENTLY DISCOVERED BY PROFESSOR WEINEK IN THE LICK OBSERVATORY PHOTOGRAPHS OF THE MOON.

[Translation of a letter from Professor WEINEK] Imperial Observatory of Prague, 1891, April 9.

" * * * * * I send you with this a copy of my ten-fold enlarged drawing of *Thebit* which I have lately completed from the beautiful negative made at the Lick Observatory on August 27, 1888, and ask your acceptance of it. The copy was quickly made, but it is accurate.

Although I am very much occupied with other observations, I have made the drawing of this crater because it shows in the interior a species of *Rill* (extending from ξ to ϵ of NEISON'S map), resembling a fracture along the floor, which is not shown in the maps of LOHRMANN and MAEDLER nor yet anywhere mentioned by SCHMIDT.

This *Rill* in *Thebit* seems to divide into two branches, extending eastwardly, at its northern part, and shows on the negative even more plainly than the *Rill* which lies west of *Triesnecker*, and seems to be a formation of precisely the same character.

On the night of March 31, 1891 (when the phase was very similar to that of August 27, 1888), I was able to verify the